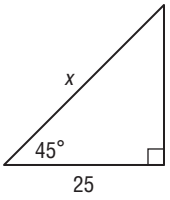
8-3 Skills Practice

Special Right Triangles

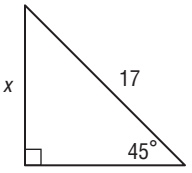
Find *x*.

1.



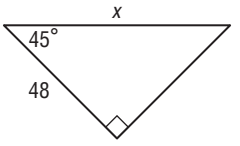
$25\sqrt{2}$

2.



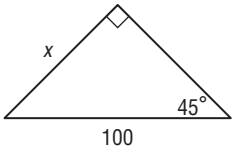
$8.5\sqrt{2}$ or $\frac{17\sqrt{2}}{2}$

3.



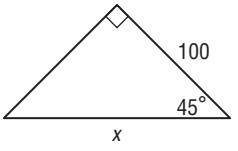
$48\sqrt{2}$

4.



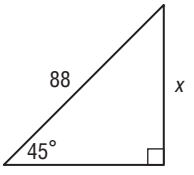
$50\sqrt{2}$

5.



$100\sqrt{2}$

6.



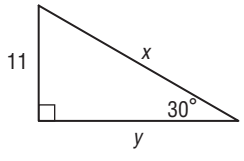
$44\sqrt{2}$

7. Determine the length of the leg of 45°-45°-90° triangle with a hypotenuse length of 26. **$13\sqrt{2}$**

8. Find the length of the hypotenuse of a 45°-45°-90° triangle with a leg length of 50 centimeters.
$50\sqrt{2}$ cm

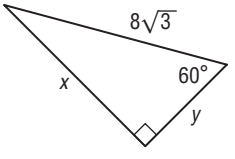
Find *x* and *y*.

9.



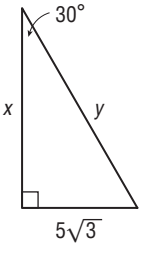
22; $11\sqrt{3}$

10.



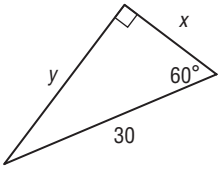
12; $4\sqrt{3}$

11.



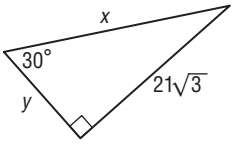
15; $10\sqrt{3}$

12.



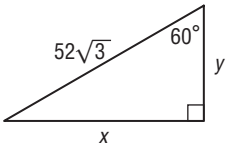
15; $15\sqrt{3}$

13.



42; 21

14.



78; $26\sqrt{3}$

15. An equilateral triangle has an altitude length of 27 feet. Determine the length of a side of the triangle.
$18\sqrt{3}$

16. Find the length of the side of an equilateral triangle that has an altitude length of $11\sqrt{3}$ feet.
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